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INFORMATION FROM
FOREIGN DOCUMENTS OR RADIO BROADCASTS

REPORT

CD NO.

50X1-HUM

COUNTRY USSR

SUBJECT Economic; Technological - Machinery, instruments, electrical, communications equipment

HOW PUBLISHED Daily newspapers and weekly periodical

WHERE PUBLISHED Berlin; USSR

DATE PUBLISHED 28 Feb - 18 Mar 1951

LANGUAGE German; Russian

DATE OF INFORMATION 1951

DATE DIST. 16 Jun 1951

NO. OF PAGES 3

SUPPLEMENT TO REPORT NO.

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DISCUSSES PRODUCTION, DEVELOPMENT OF NEW
USSR MACHINERY, INSTRUMENTS, ELECTRICAL EQUIPMENT

DREDGE, NEW CINEMATIC EQUIPMENT AT LEIPZIG FAIR -- Berlin, Taegliche Rundschau, 28 Feb 51

Among the Soviet machinery on exhibit at the 1951 Leipzig Fair are a dredge weighing 47 tons and a 60-ton horizontal boring machine, 10 by 6 by 4 meters. The boring machine has a maximum speed of 1,800 revolutions per minute, and operates with a precision of one two-hundredth of a millimeter. The main drive is a 17-kilowatt motor; 12 auxiliary motors total 32 kilowatts. The table area is 4 square meters. This machine tool is almost as large as the 30-ton three-roller bending machine, which can bend tubes from sheet metal up to 25 millimeters thick and 2 meters wide. In all, 32 different types of metalworking and woodworking machines were brought to Leipzig for exhibit.

Molotnikov, a specialist in cinematic and optical equipment from Stanko-import (Machine Tool Import), made the following statement at the fair: "Our picture and sound equipment is of the most modern design. I am particularly proud of our sound-reproduction equipment, which guarantees clear reproduction in rooms with as many as 1,500 seats. It contains two amplifiers for high and low tones, with two complete loud-speaker installations. It is the only one of its kind in the world. A group of scientists, engineers, and Stakhanovites are getting the Stalin Prize for its development."

DESIGNS THREAD-GENERATING AUTOMATIC -- Vit'nyus, Sovetskaya Litva, 6 Mar 51

A thread-generating automatic, many times more productive than the usual automatics, has been designed by a group of innovators at the Vil'nyus Electric Meter Plant. It threads up to 10,000 screws per shift when hand loaded, and about 18,000 when it is loaded by hopper. The ordinary automatic threads 600-700 screws per shift.

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The Vil'nyus Electric Meter Plant has been built since the end of the war. It was put into operation quickly because of the assistance rendered by other republics. The plant has machine tools, presses, and automatics of the latest design from Moscow, Leningrad, Minsk, Tbilisi, Penza, Chkalov, and other cities. It has received equipment from 42 cities in the USSR. Work is progressing at a fast pace throughout the plant, with workers fulfilling their norms many times over.

NEW AUTOMATIC MACHINE SPEEDS GLASS-MAKING -- Vil'nyus, Sovetskaya Litva, 6 Mar 51

Not long ago glass items were made by hand press at the Khrustal'nyy Plant, at Gus'-Khrustal'nyy, Vladimir Oblast; now they are produced on automatic machines. The machine consists of a rotating table with molds which are filled in turn with drop of a glass metal, after which the articles are automatically pressed. The workers do not touch the items in any of the operations, even up to the wrapping of the finished products.

Formerly, two workers produced 1,500-2,000 items per shift by hand pressing; now one automatic machine attended by two persons puts out 30,000-36,000 items. The new machines have made it possible to free a considerable amount of production space.

DESIGNS NEW TRACHEOBRONCHOSCOPE -- Moscow, Ogonek, 18 Mar 51

Foreign objects which find their way into the trachea or bronchi are extracted by a tracheobronchoscope which is inserted into the windpipe after administration of a local anesthetic. The device consists of a rigid metal pipe with a U-shaped mirror over its upper end. A light, reflected by the mirror from a small electric bulb, helps to locate the object, which is then gripped by special forceps and extracted through the pipe or along with the pipe.

Until recently, the design of the apparatus has not been entirely satisfactory. Professor V. K. Trutnev, one of the most prominent otolaryngologists in the country, in collaboration with engineers N. I. Khozyayinov and S. F. Kaspiyev, has designed a new tracheobronchoscope. The essential part of the device is constructed on a new principle. The surgeon need no longer constantly adjust the light beam during the operation. Moreover, the illumination is almost twice as strong as in the older foreign-made apparatus. It is now much easier to find and extract the object.

The first experimental model of Trutnev's tracheobronchoscope has already been tested under clinical conditions, and has been highly rated by specialists. The Scientific Medical Council, Ministry of Health RSFSR, and the Technical Council, Ministry of Health USSR, recently confirmed the advantages of the domestic tracheobronchoscope over imported ones.

PRODUCE METEOROLOGICAL, ACTINOMETRIC INSTRUMENTS -- Tbilisi, Zarya Vostoka, 7 Mar 51

Research is being carried on at the new construction projects with the help of hydrological, aerological, and meteorological instruments produced by the Tbilisi' Gidrometpribor Plant. There is a particularly great demand for evaporation-measuring instruments, bathometers, impellers for measuring the speed of movement of the water, and earth augers. The plant is producing a steady supply of these instruments. On 25 February, it fulfilled its quarter plan in output of evaporation-measuring instruments.

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The plant is also getting orders for instruments which it must make for the first time. Last month, for example, a set of precision instruments for equipping the so-called desert meteorological stations, which were produced for the Main Turkmen Canal construction project.

The plant has undertaken to series-produce actinometric instruments. These are complex, high-precision instruments, which are used for observing the sun's radiation. Previously, these instruments had been produced only in Leningrad.

DESIGN INSULATORS FOR 400,000-VOLT CURRENT -- Kishinev, Sovetskaya Moldaviya,
4 Mar 51

The Slavyansk Fittings and Insulator Plant imeni Artem in collaboration with scientists, is successfully working toward the solution of the problem of making insulators for use in the transmission of current from the Volga electric power stations to distant places. The first experimental model of an insulator capable of withstanding a pressure of 400,000 volts, planned by the Design Bureau, has already been put out. The enterprise is now preparing to series-produce the new insulator.

At the same time, output of ordinary equipment for high-voltage transmission lines is being expanded, as a result of orders from the new construction projects. Already the Volga hydroelectric units and the Volga-Don Canal have received tens of thousands of suspension insulators, "garlands" (girlyanda), and fittings from the plant.

COMPETE FOR BEST USE OF EQUIPMENT -- Moscow, Vechernyaya Moskva, 5 Mar 51

The number of workers at the Moscow Searchlight Plant participating in competition for the best use of equipment is growing day by day. Some of the shops taking part are the generator, tin and copper, woodworking, tool, and machine shops.

PRODUCES SIGNAL LIGHTS FOR COAL INDUSTRY -- Tbilisi, Zarya Vostoka, 3 Mar 51

The Tbilisi Precision Instruments Plant, Ministry of Local Industry, Georgian SSR, has begun to produce signal lights for the coal industry.

RADIO PARTS FAIL TO SATISFY AMATEURS' DEMANDS -- Riga, Sovetskaya Latvija,
3 Mar 51

There are many radio amateurs in Rezekne, and their number is increasing every day. This means a growing demand for such items as radio tubes, condensers, transformers, and wire. All these parts are put out in large quantities by our industry, but they are not available in the Rezekne stores. Commercial enterprises in the city should organize the sale of radio equipment.

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